WO 2004/091130 PCT/SE2004/000543

26

WHAT IS CLAIMED IS:

1. A telecommunications device comprising:

a transceiver (33) which enables the device (30, 26) to communicate over an air interface (32);

a radio link control entity (50) which forms uplink RLC protocol data units (PDUs) for transmission over the air interface (32) and which receives downlink RLC protocol data units (PDUs) over the air interface (32);

a radio link control (RLC) buffer memory (150) configured to include a transmitter buffer for storing the uplink RLC protocol data units (PDUs) and a receiver buffer for storing the downlink RLC protocol data units (PDUs); and

characterized by:

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RLC reconfiguration logic means which is arranged to reconfigure at least one of a size of a transmitter buffer window and a size of a receiver buffer window by implementing a strategy for handling at least one of (1) downlink RLC protocol data units (PDUs) which are outside a new receiver buffer window; and (2) uplink RLC protocol data units (PDUs) which are either outside a new transmitter window or whose receipt by the radio access network has not been positively acknowledged.

- 2. The apparatus of claim 1, wherein the telecommunications device is a user equipment unit, and wherein the RLC reconfiguration logic means is arranged to implement the strategy of:
- (A) discarding any downlink RLC protocol data units (PDUs) which were received as being within old receiver buffer window but which are outside the new receiver buffer window;
- (B) retaining in the radio link control (RLC) buffer memory (150) any uplink RLC protocol data units (PDUs) whose receipt by the radio access network has not been positively acknowledged.
- 3. The apparatus of claim 2, wherein the radio link control entity (50) is further arranged to retransmit after the reconfiguration the uplink RLC protocol data units (PDUs) which were negatively acknowledged by the radio access network.
- 4. The apparatus of claim 2, wherein the radio link control entity (50) is further arranged not to require segmentation of a service data unit (SDU) received from a

WO 2004/091130 PCT/SE2004/000543

27

higher layer when, after the reconfiguration, the radio link control (RLC) buffer memory (150) experiences a memory size constraint.

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- 5. The apparatus of claim 2, wherein the radio link control entity (50) does not negatively acknowledge the downlink RLC protocol data units (PDUs) that were received in the old receiver buffer window but which are outside the new receiver buffer window.
- 6. The apparatus of claim 1, wherein the telecommunications device is a user equipment unit, and wherein the RLC reconfiguration logic means is arranged to implement the strategy of:
- (A) retaining all downlink RLC protocol data units (PDUs) stored in the receiver buffer even if outside the new receiver buffer window until the receiver buffer window can be advanced;
- (B) retaining any uplink RLC protocol data units (PDUs) stored in the transmitter buffer, whose receipt by the radio access network has not been positively acknowledged, even if outside the new transmitter buffer window.
- 7. The apparatus of claim 6, wherein the radio link control entity (50) is further arranged to check whether receipt of a Service Data Unit (SDU) from a high layer would exceed capacity of the radio link control (RLC) buffer memory (150).
- 8. The apparatus of claim 7, wherein the radio link control entity (50) is further arranged to check for acknowledge mode RLC entities whether the buffer memory is sufficient to store acknowledge mode RLC protocol data units (AMD PDUs) having a sequence number SN which satisfies VT(A) < SN < VT(S), wherein VT(A) is a sequence number following the last in-sequence acknowledged AMD PDU; and VT(S) is a sequence number for a next AMD PDU to be transmitted for a first time.
 - 9. The apparatus of claim 6, wherein the radio link control entity (50) is further arranged to check whether receipt of a Protocol Data Unit (PDU) from the radio access network would exceed capacity of the radio link control (RLC) buffer memory (150).
 - 10. The apparatus of claim 9, wherein the radio link control entity (50) is further arranged to check for acknowledge mode RLC entities whether the buffer

PCT/SE2004/000543

memory is sufficient to store acknowledge mode RLC protocol data units (AMD PDUs) having a sequence number SN which satisfies VR(R) < SN < VR(H), wherein VR(R) is a sequence number following the last in-sequence AMD PDU received; and VR(H) is a sequence number following a highest sequence number of any received AMD PDU.

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- 11. The apparatus of claim 1, wherein the telecommunications device is a radio access network node, and wherein the RLC reconfiguration logic means is arranged to implement the strategy of:
- (A) retaining all downlink RLC protocol data units (PDUs) upon reconfiguration;
 - (B) retaining all uplink RLC protocol data units (PDUs) upon reconfiguration.
- 12. A method of operating a user equipment unit (30) which communicates over an air interface (32) with a radio access network, the method comprising:

using a radio link control entity (50) to form uplink RLC protocol data units (PDUs) for transmission over the air interface (32) and to receive downlink RLC protocol data units (PDUs) over the air interface (32);

storing the uplink RLC protocol data units (PDUs) in a transmitter buffer of a radio link control (RLC) buffer memory (150);

storing the downlink RLC protocol data units (PDUs) in a receiver buffer of the radio link control (RLC) buffer memory (150);

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during a RLC reconfiguration wherein the user equipment unit (30) is directed to reconfigure at least one of (1) a size of a transmitter buffer window to form a new transmitter buffer window having a transmitter buffer window size smaller than an old transmitter buffer window; and (2) a size of a receiver buffer window to form a new receiver buffer window having a receiver buffer window size smaller than an old receiver buffer window, the method being characterized by:

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- (A) discarding any downlink RLC protocol data units (PDUs) that were received as being within the old receiver buffer window but which are outside the new receiver buffer window;
- (B) retaining in the radio link control (RLC) buffer memory (150) any uplink RLC protocol data units (PDUs) whose receipt by the radio access network has not been positively acknowledged.

PCT/SE2004/000543

WO 2004/091130

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- 13. The method of claim 12, further comprising the radio link control entity (50) retransmitting after the reconfiguration the uplink RLC protocol data units (PDUs) which were negatively acknowledged by the radio access network.
- 14. The method of claim 12, further comprising the radio link control entity (50) not requiring segmentation of a service data unit (SDU) received from a higher layer when, after the reconfiguration, the radio link control (RLC) buffer memory (150) experiences a memory size constraint.
- 15. The method of claim 12, further comprising the radio link control entity (50) not negatively acknowledging the downlink RLC protocol data units (PDUs) that were received in the old receiver buffer window but which are outside the new receiver buffer window.
- 16. A method of operating a user equipment unit (30) which communicates over an air interface (32) with a radio access network, the method comprising:

using a radio link control entity (50) to form uplink RLC protocol data units (PDUs) for transmission over the air interface (32) and to receive downlink RLC protocol data units (PDUs) over the air interface (32);

storing the uplink RLC protocol data units (PDUs) in a transmitter buffer of a radio link control (RLC) buffer memory (150);

storing the downlink RLC protocol data units (PDUs) in a receiver buffer of the radio link control (RLC) buffer memory (150);

during a RLC reconfiguration wherein the user equipment unit (30) is directed to reconfigure at least one of (1) a size of a transmitter buffer window to form a new transmitter buffer window having a transmitter buffer window size smaller than an old transmitter buffer window; and (2) a size of a receiver buffer window to form a new receiver buffer window having a receiver buffer window size smaller than an old receiver buffer window, the method being characterized by:

- (A) retaining all downlink RLC protocol data units (PDUs) stored in the receiver buffer even if outside the new receiver buffer window until the receiver buffer window can be advanced;
- (B) retaining any uplink RLC protocol data units (PDUs) stored in the transmitter buffer, whose receipt by the radio access network has not been positively acknowledged, even if outside the new transmitter buffer window.

PCT/SE2004/000543

17. The method of claim 16, further comprising the radio link control entity (50) checking whether receipt of a Service Data Unit (SDU) from a high layer would exceed capacity of the radio link control (RLC) buffer memory (150).

WO 2004/091130

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18. The method of claim 17, further comprising the radio link control entity (50) checking for acknowledge mode RLC entities whether the buffer memory is sufficient to store acknowledge mode RLC protocol data units (AMD PDUs) having a sequence number SN which satisfies VT(A) < SN < VT(S), wherein VT(A) is a sequence number following the last in-sequence acknowledged AMD PDU; and VT(S) is a sequence number for a next AMD PDU to be transmitted for a first time.

19. The method of claim 16, further comprising the radio link control entity (50) checking whether receipt of a Protocol Data Unit (PDU) from the radio access network would exceed capacity of the radio link control (RLC) buffer memory (150).

20. The method of claim 19, further comprising the radio link control entity (50) checking for acknowledge mode RLC entities whether the buffer memory is sufficient to store acknowledge mode RLC protocol data units (AMD PDUs) having a sequence number SN which satisfies VR(R) < SN < VR(H), wherein VR(R) is a sequence number following the last in-sequence AMD PDU received; and VR(H) is a sequence number following a highest sequence number of any received AMD PDU.

21. A method of operating a radio access node (26) of a radio access network which communicates over an air interface (32) with a user equipment unit (30), the method comprising:

using a radio link control entity (50) to form uplink RLC protocol data units (PDUs) for transmission over the air interface (32) and to receive downlink RLC protocol data units (PDUs) over the air interface (32);

storing the uplink RLC protocol data units (PDUs) in a transmitter buffer of a radio link control (RLC) buffer memory (150);

storing the downlink RLC protocol data units (PDUs) in a receiver buffer of the radio link control (RLC) buffer memory (150);

during a RLC reconfiguration, reconfiguring at least one of a size of a transmitter buffer window and a size of a receiver buffer window by:

WO 2004/091130 PCT/SE2004/000543

31

- (A) retaining all downlink RLC protocol data units (PDUs) upon reconfiguration;
 - (B) retaining all uplink RLC protocol data units (PDUs) upon reconfiguration.